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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,149	943,149 08/30/2001		Nathan Y. Moyal	0325.00495	8648
21363	7590	11/20/2002			
		MAIORANA, P.C	EXAMINER		
24025 GRE. SUITE 200	ATER MA	iCK.	NGUYEN, LINH V		
ST. CLAIR SHORES, MI 48080				ART UNIT	
				2819	
				DATE MAILED: 11/20/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary Examiner		Application No.	Applicant(s)					
Linh V Nguyen		09/943,149	MOYAL ET AL.					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editablish of them may be available under the processor of 3 CPR 1.158(a). In no event, however, may a reply be timely filled If the period for reply specified above is less than thely (30) days, a reply within the statutory prefid with \$(8) MONTHS from the mailing date of this communication for reply specified above. In the seminal statutory period with \$(8) MONTHS from the mailing date of this communication, even if timely filled, may reply received by the Office tale than their communication, even if timely filled, may reply received by the Office tale than the mailing date of this communication, even if timely filled, may reply received by the Office tale than the mailing date of this communication, even if timely filled, may reply received by the Office tale than the mailing date of this communication, even if timely filled, may reply received by the Office tale than the mailing date of this communication, even if timely filled, may reply received by the Office tale than the mailing date of this communication, even if timely filled, may reply received by the Office tale the mailing date of this communication, even if timely filled, may reply received by the Office tale of the Communication of the Co	Offic Action Summary	Examiner	Art Unit					
Period for Reply A SHORTNEND STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. But Marked SIX (8) MONTH'S from the mailing date of this communication. If the period for reply specified above, the modification of the communication is the period for reply specified whose is less than this (70) days, a reply be timely filled after SIX (8) MONTH'S from the mailing date of this communication. If the period for reply is specified above, the modification is statistically specified by the SIX (8) MONTH'S from the mailing date of this communication. If the period for reply is genetical above, the modification is statistically specified above, the modification is specified and is specified above. The modification is specified and is accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Clairms 4) Clairm(s)								
THE MAILING DATE OF THIS COMMUNICATION. - Editions of time may be available under the provisions of 3 CPR 1.136(a). In no ovent, however, may a reply be limited filled after SN (6) MONTS from the mailing date of this communication. - Failure to reply us pacified above, the maximum atteiture period within the statutory minimum of thish (30) days will be considered intely, and the state of the communication of the provision of the communication. - Failure to reply within the set or extended period for reply vill. by statine, cause the application to become ARANCONED (33 U.S.C. § 133). - Any tryby received by the Office after them three menting date of this communication, even if timely fled, may reduce any station is provisional patient time adjustment. One 97 CPR 1.194(b). Status 1) Responsive to communication(s) filled on 30 August 2001 - This action is FINAL. 2b) This action is FINAL. 2b) This action is final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-20 is/are allowed. 6) Claim(s) 1-20 is/are allowed. 6) Claim(s) 1-20 is/are allowed. 7) Claim(s) is/are allowed. 8) The drawing(s) filed on 30 August 2002 is/are: a) Recepted or b) objected to by the Examiner. 4) The proposed drawing accretion filed on is/are allowed. 10) The proposed drawing correction filed on is/are allowed. 11) The proposed drawing correction filed on is/are allowed. 12) The proposed drawings are required in reply to this Office action. 12) The proposed drawings are required in reply to this Office action. 12) The proposed drawings are required in reply to this Office acti	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
after SX (8) MONTHS from the mixiling date of this communication. If the period care phy specified dreve his least hant by (2) days, a reply villation the statistory minimum of thisty (20) approvable bio conditation of the physical care to reply within the statistory minimum of thisty (20) approvable bio conditation of the physical care the application to become ABANDONED (35 U.S.C. § 133). **Failure to reply within the set or extended period for reply with by statute, cause the application to become ABANDONED (35 U.S.C. § 133). **Failure to reply within the set or extended period for reply with by statute, cause the application to become ABANDONED (35 U.S.C. § 133). **Status** 1) Responsive to communication(s) filed on 30 August 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-20 is/are rejected. 7) Claim(s) 1-20 is/are rejected to state of the examiner. 4pplication Papers 9) The specification is objected to by the Examiner. 4pplication Papers 9) The proposed drawing correction filed on is all approved by the Examiner. 4pplication Papers 11) The proposed drawing correction filed on is all provided by the Examiner. 12) The proposed drawing correction filed on is all paproved by the Examiner. 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 14) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2a) 1b) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 a	THE MAILING DATE OF THIS COMMUNICATION.							
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Application/Control Number: 03943,149

Art Unit: 2819

DETAILED ACTION

Information Disclosure Statement

1. Information disclosure statement filed 1/11/02 with a list of all patents, publication or other related information submitted is misplaced. Please send or fax another copy of "Information disclosure Statement" with a list of all patents, publication or other related documentation.

Drawings

- 2. Figure 1 should be designated by a legend such as --Prior Art— because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. This application has been filed with informal drawings, which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

² Art Unit: 2819

5. Claims 1 - 3 rejected under 35 U.S.C. 102(e) as being anticipated by Gotz et al. German patent No. 19946200 A1.

Regarding to claims 1 – 3, Fig. 1 Gotz et al disclose an apparatus comprising: a phase lock loop (PLL) configured to multiply an input frequency to generate an output frequency in response to a lock signal; and a lock circuit (CL) configured to generate the lock signal, wherein the PLL is configured with MUX2 to select a reference frequency as the input frequency when in a first mode and a divided (FT4) frequency of the input frequency when in a second mode.

Regarding to claim 2, wherein the first mode is further configured to increase a feedback divide ratio (f2MUX1).

Regarding to claim 3, wherein the second mode is further configured to decrease the feedback divide ratio (f1MUX1).

Regarding to claim 4, wherein the lock circuit comprises a lock decision logic circuit (CL).

Regarding to claim 6, wherein the lock circuit is configured in response to an internal signal (output signal of change over control circuit (US)).

Regarding to claim 9. wherein the PLL comprises: a first switchable divider (MUX2) configured to generate a reference frequency in response to the input frequency; a PLL logic circuit configured to generate the output frequency (fVCO) in response to the reference; and a second switchable divider (MUX1) configured to generate feedback frequency in response to said output frequency.

Regarding to claim 10, wherein said first and second switchable dividers are further configured in response to said lock signal (see Fig. 1).

Regarding to claim 11 wherein the first switchable divider comprises a first divider (FT4) and a first multiplexer (MUX2), wherein the first multiplexer is configured to select the first divided output frequency or the input frequency and present the reference frequency; and the second switchable divider comprises a second divider (FT1), a third divider (FT2) and a second multiplexer (MUX1),

wherein said multiplexer is configured to select a second divided output frequency or a third divided frequency and present the feedback frequency (f1MUX1, f2MUX1).

Regarding to claim 12, wherein said second and third dividers are configured in series (FT1, FT2).

Regarding to claim 14, where in second and third dividers comprise multi-channel dividers (page 2 lines 4 –6, disclosing PLL circuit for TDMA, GSM systems, therefore multi-channel is inherent to PLL circuit of Gotz et al.).

Regarding to claim 15, Fig. 1 Gotz et al. disclosing circuit having: means for multiplying an input frequency in response to a lock signal; means for generating an output frequency in response to said input frequency; means for generating said lock signal; means for selecting said input frequency to be a reference frequency when in a first mode and a divided frequency of said input frequency when in a second mode.

Regarding to claims 16 - 20, the steps in the claimed method are deemed to be made clearly taught by Gotz et al. as applied to claims 1 - 4, 9 - 12, and 15 above.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gotz et al.

 Gotz et al. as applied to claim 11 above disclose every aspect of applicant's claimed invention except that wherein said second and third dividers are configured in parallel. Fig. 1 Gotz et al. shows dividers

Application/Control Number: 03943,149

4 Art Unit: 2819

(FT, FT2) circuit arrangement is an equivalent structure know in the art and furthermore this equivalent circuit also has indicated by applicant with respect to Fig. 5, 6 or Fig. 7, 8 of applicant application. Therefore Gotz et al. structures are equivalent to applicant's claimed invention.

8. Claims 5, 7 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Gotz et al. ,in view of Lada, Jr. et al. U.S patent No. 5, 142, 247 .

Gotz et al. as applied to claim 1 above disclose every aspect of applicant's claimed invention except wherein the control logic circuit comprises a timer, and a user externally controls the lock circuit.

Fig. 2 Lada discloses a Phase Lock Loop circuit having a lock logic circuit (30) externally controlled by a user (SEL) to generate a lock signal (REFSEL) wherein the lock logic circuit is extern comprises a timer (33).

Gotz et al. and Lada, Jr. et al., are analogous because they are from similar problem solving for Phase Lock Loop circuit. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply external control of lock logic circuit with timer of Lada et al. to the internal control of lock logic circuit of Gotz et al. for the purpose of maintaining the pulse for a predetermined number of cycles so that the pulse duration exceeds the time necessary for Phase Lock Loop to acquire and lock onto the new frequency (Lada, Col. 6 lines 41 - 47).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (703) 305-1934. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Tokar can be reached at (703) 305-3493. The fax phone numbers for the organization

• Art Unit: 2819

where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

LVN

November 14, 2002

Mulan J. Tokun Michael Tokar Supervisory Patent Examiner

Technology Center 2800